

COMPLETE BREEDER

PAN FEEDING

CHAIN FEEDING

STORAGE/DELIVERY

WEIGHING SYSTEMS

WATERING SYSTEMS

VENTILATION FANS

CURTAIN MACHINES

*Flexible, low maintenance,
and proven reliability.*

NESTING SYSTEMS

COOLING SYSTEMS

ENVIRONMENTAL CONTROLS



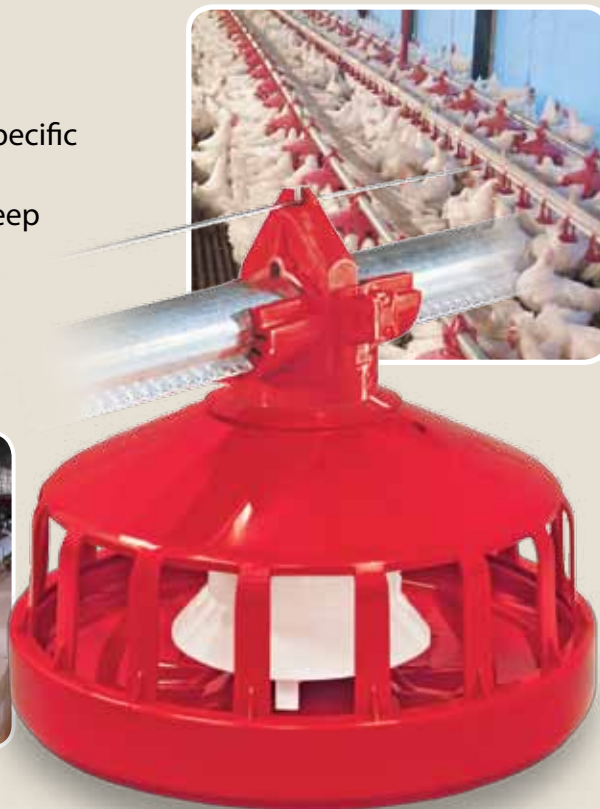
Your Source for Innovative Solutions

FEEDING SYSTEMS

Cumberland offers a feeding system to accommodate the specific needs of your breeders, pullets and males. All systems are designed for flexibility, low maintenance and reliability to keep down both installation and operating costs.

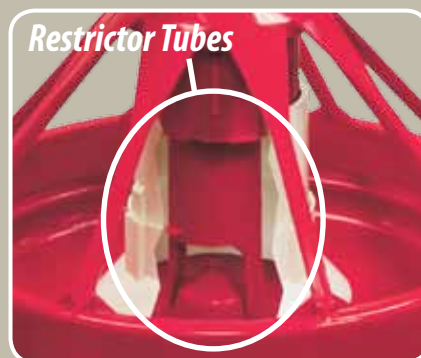
Breeder Pan Feeder

- Choose from 3 different styles of grills.
- Roosters restricted vertically and horizontally from accessing the hens feed.
- Durable plastic construction.
- Sturdy, all plastic anti-rotation clip.
- Two-piece drop tube for ease of installation or replacement.



Hi-Lo Pullet Feeder

- Specially molded, low volume, waffle pan.
- Restrictor tubes limit the amount of feed within the feeder drop tube which promotes uniform feed distribution throughout the feed line.
- Durable 8-spoke plastic construction.
- Sturdy, all plastic anti-rotation clip.



Male Feeder

- Multiple levels of feed depth.
- Optional slide shut-off.
- Durable 8-spoke plastic construction.
- Shallow design for easy access.
- Feed saver lip to reduce raking.
- Sturdy, all plastic anti-rotation clip.



A sturdy, all plastic anti-rotation clip is easy to assemble and, used in conjunction with Cumberland's ribbed tubing, keeps the pan stationary on the line for proper operation and reduced feed spillage.



An optional, all plastic, slide shut-off is available. Easy to install, the slide shutoff allows any combination of feeders to be shut-off from feed.



Light, durable, fully galvanized **FEED LINE HOPPERS** are available in 120, 200, 300 and 400 lb. capacity.



STANDARD HOPPER SUSPENSION allows removal of the feed hopper without affecting the feed line suspension when raising the feed lines for clean out and normal maintenance that might occur between flocks.

Standard Hopper Suspension



Heavy fabricated, galvanized, **SINGLE AND DOUBLE OUTLET BOOTS** are available for end or center house feeding applications.

The optional **FEED HOPPER ROTATION SUSPENSION KITS** can be easily installed on existing or new feed lines allowing the feed hopper to rotate 90 degrees without removing the feed hopper.

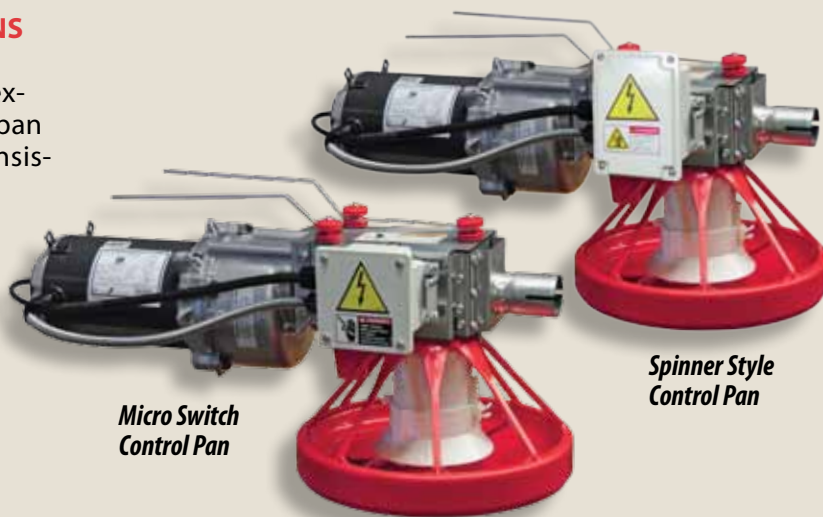
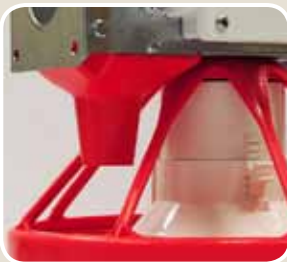


Optional Feed Hopper Rotation Suspension Kit

Customize your system to bird type and feeding requirements.

Cumberland offers a selection of **CONTROL PANS** for your feeder line. Choose from a micro switch, proximity switch, plunger style, or Cumberland's exclusive spinner motor control pan. All control pan models are durably constructed and assure consistent feed regulation.

A durable plastic **OVERFLOW BYPASS FUNNEL** redirects any feed that may have escaped falling through the control pan drop tube conveniently back into the feed pan.



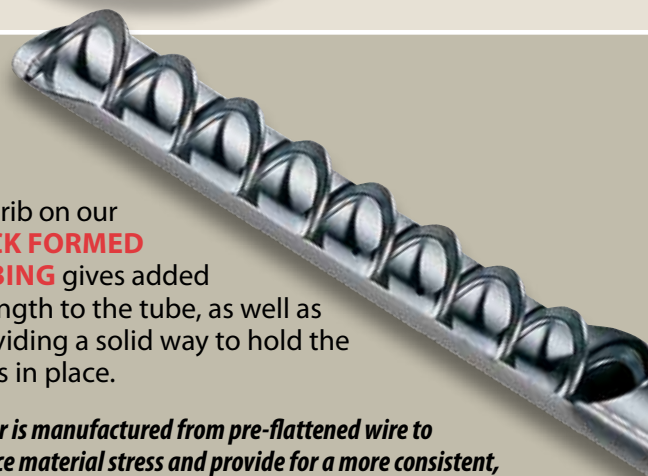
Micro Switch Control Pan

Spinner Style Control Pan



Traditional **MICRO SWITCHES, PROXIMITY HOPPER LEVEL CONTROLS** and **FLEX-FLO HOPPER LEVEL CONTROL SWITCHES** are available to regulate feed delivery.

The **SENS-O-MATIC II FEED HOPPER SWITCH** has proven to be a reliable way to regulate your feed delivery. An optional adjustable bracket kit allows the Sens-O-Matic to be conveniently adjusted to proper operation height.



The rib on our **LOCK FORMED TUBING** gives added strength to the tube, as well as providing a solid way to hold the pans in place.

Auger is manufactured from pre-flattened wire to reduce material stress and provide for a more consistent, high quality product.

FEEDING SYSTEMS

Belt and Direct Drive Chain Feeding Systems

Cumberland belt drive and direct drive chain feeder systems represent the classic, proven technique for even, low-stress distribution of feed. This system provides equal access to feed for all birds, promoting uniform development.



Pin Clock Controller

Digital Clock Controller



With the full range of grill patterns, trough designs and connections, suspension and hopper options, Cumberland Chain Feeder Systems can be specifically configured to meet the particular needs of the individual grower and house layout.

Simple **ELECTRONIC CONTROLS** are used to operate Cumberland's Chain Feeder System. The standard speed system (60 feet or 18.28 meters per minute) uses either a 24-hour pin clock or a 24-hour four channel digital timer, both of which can be pre-programmed to control all feeding and fill systems from the weigh bin, to the house, to the feeder.

Proven feeding system for even, low-stress distribution



TROUGHS are available in two sizes: a smaller design for pullets and a larger trough (with a "feed saver" lip) for hens. **GRILLS** are available in almost any configuration to control access in any category.

Completely enclosed in a powder coated, steel housing, the **CORNER MECHANISM** is specifically designed for low maintenance and high performance. Mounted on a hardened steel base plate, the corner guide rail and fluted wheel provide maximum wear resistance while assuring smooth chain movement.





Cumberland's **MINI-HOPPERS** are available in 50/60 Hz, 1 phase and 3 phase models. Choose from 60 or 120 feet per minute units built to last with strong weld connections and a durable multi-stage finish including shot-blasting, electrostatic powder coating and oven baked process. Mini-hoppers are available in a full range of formats and come standard with feed return wheels and feed level adjustments. Fill hoppers, maxi-hoppers and our new single drive unit complete our full line of feeding equipment.



Utilizing the same reliable feed return wheel and shaft as the mini-hopper and maxi-hopper, Cumberland's **ONE LINE UNLOADER** adds another option for uniform feed distribution. With a weight of only 27 pounds (12.25 kg), the one line unloader is easy to handle and install.

The assembled yoke features a precision machined design that reduces the number of parts, guarantees proper alignment and significantly enhances dependability.



The chain feeder **DIRECT DRIVE SYSTEM** provides all the proven advantages of chain feeding with dependability and durability you can count on. Direct drive systems are available in 50/60 Hz, 1 phase and 3 phase models. Choose from 60, 90, or 120 feet per minute units all designed for low maintenance and efficient operation.



Cumberland offers a wide selection of **HOPPER EXTENSIONS AND LID ASSEMBLIES**. Units are available in 1, 2, and 4 line models ranging in capacities from 135 lbs. to 435 lbs.



CHAIN, TROUGH, AND GRILLS are engineered for strength, low maintenance and long life. Trough is available in 10' and 12' lengths. Cumberland's blue chain is available in 50' increments and features strong link connections for reliable performance. 5' and 6' grills are available in many vertical heights and horizontally spaced designs to meet all of your requirements.

TROUGH CONNECTING SECTIONS are available in a full range of formats: 6", 8" and 12" (15.2cm, 20.3 cm and 30.5cm) lengths with clip-on or wrap around hangers (and heavy duty "j" hangers). Adjustable leg stands are available as well as corner in all compatible formats.



WATERING SYSTEMS

For reliable, low maintenance watering look to Cumberland and HH2O Watering Systems.

Cumberland's HH2O watering systems are designed to meet the demands of today's broad poultry production needs. For Breeders and Pullets, FeatherSoft Hi-Flow Nipples with LitterGard Cups are the perfect choice for optimum flow and precise delivery of water to birds of all ages.



FeatherSoft™ Layer Nipple

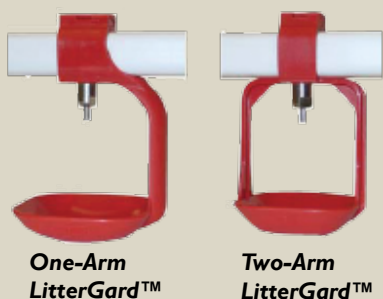


The patented 360° triggering FeatherSoft™ Layer Nipple offers many features and benefits that will make a difference to your bottom line.



LITTERGARD™ WATERING CUPS

The LitterGard cup is designed to catch any water spillage caused by the aggressive triggering of larger birds, thus improving litter conditions throughout the building.



FeatherSoft™ features & benefits

360° TRIGGERING - Easy triggering of the pin provides a plentiful supply of water to birds of all ages.

ONE NIPPLE FROM START TO FINISH - Birds are raised on the same nipple that they will use for egg production.

RAISED WATER ENTRY POINT
Eliminates the possibility of sediments entering the nipple assembly.

TROUBLE FREE - Layer Nipples have only 3 parts: body, metering pin and triggering pin and DO NOT include O-rings, seals or steel balls.

20 MICRON TEST - FeatherSoft reduces the risk of blocked water flow by allowing particles up to 20 microns to pass through the nipples.



Breeder Systems

Breeders - Breeder Nipple with LitterGard™

Number of Birds per Nipple

10-12 - Breeder Nipple with LitterGard.
8-10 - Breeder Nipple with LitterGard for Males.

Nipples per 10' Section - Standard

10-15 nipples per 10' (3 m) Section.

Max. Recommended System Length

250' (80 m) per Regulator.

Water Pressure Requirement - 250' Length

Pressure Regulator: min. 20 psi (1.380 bars) max. 45 psi (3.103 bars).

Pullet Systems

Pullets - FeatherSoft™ Nipple with or without LitterGard™

Number of Birds per Nipple

10-12 - FeatherSoft Advantage.
12-15 - FeatherSoft Advantage with LitterGard.

Nipples per 10' Section - Standard

8 - 12 nipples per 10' (3 m) Section.

Max. Recommended System Length

250' (80 m) per Regulator.

Water Pressure Requirement - 250' Length

Pressure Regulator: min. 20 psi (1.380 bars) max. 45 psi (3.103 bars).

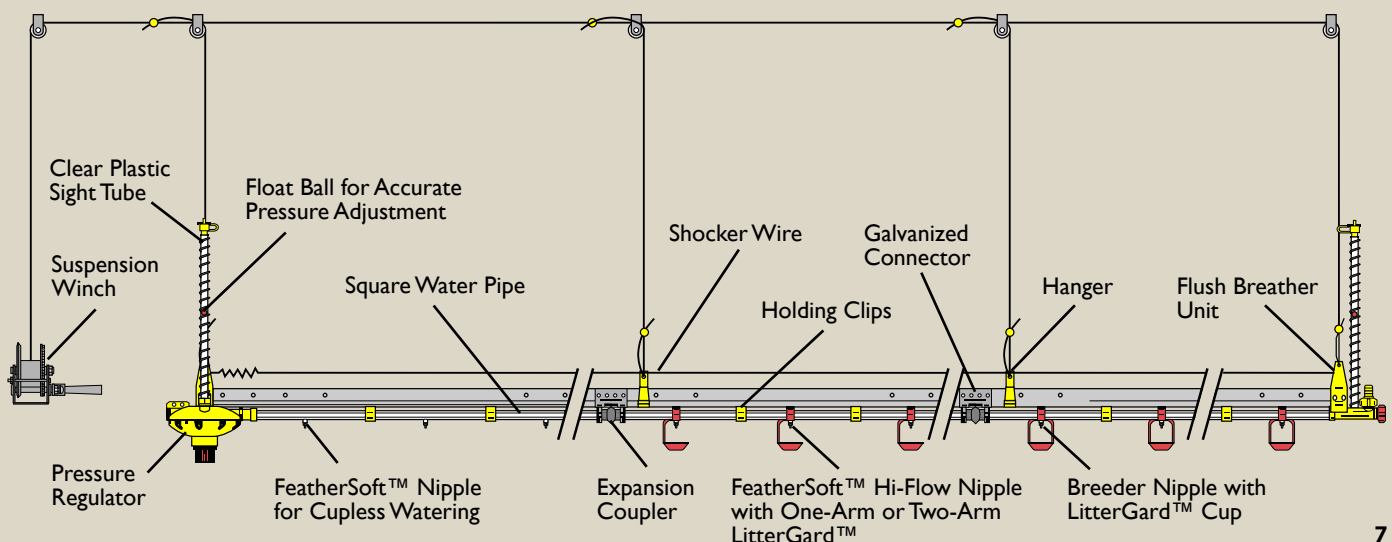
Watering sections include:

- 10' (3 m) long, square, PVC, pipe.
- Nipples with or without LitterGard.
- Expansion coupler with stainless steel crimping rings.
- 10' (3 m) aluminum support rail.
- 4 plastic holding clips.
- Galvanized connectors, 4 nuts and bolts.
- 5 Hanger.



NOTE: Watering sections are shipped completely preassembled. Only galvanized connectors and hangers are not assembled. Watering sections are packed in cartons that are protected, carefully banded and shipped on skids.

HH20 SYSTEM OVERVIEW



WATERING SYSTEMS

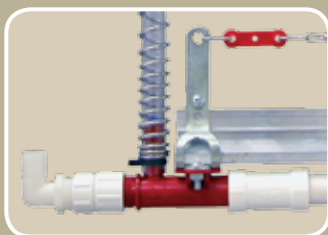
High Quality, Low Maintenance

Cumberland's experience and engineering continue to bring to you a complete watering system loaded with innovations and features that promote large healthy birds and dry floors.

Cumberland's watering systems are engineered for easy installation, low maintenance, and cost saving operation.

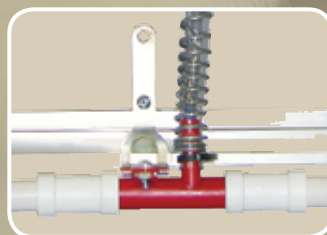


Cumberland's nipple drinker system includes the 360° side-to-side nipple valve toggle action, plus an increased flow rate with vertical lift action.



END KIT

- Extra strong design.
- Tall flexible sight gauge allows for easy pressure reading.
- Garden hose drain.



AIR VENT

- Extra strong design.
- Tall flexible sight gauge allows for easy pressure reading.
- Garden hose drain.



Twin Lock/J-Lock Nipple Valves

- 6 different styles available to meet your watering needs.
- Only 3 moving parts.
- Four times easier action.
- Stainless steel upper pin for long life and more precise flow rate.
- Quick and easy assembly for Twin Lock (no wrench required).



Twin Lock

J-Lock



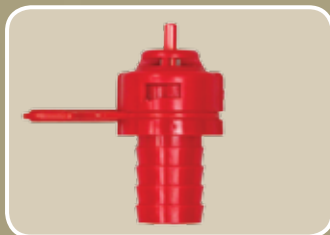
US Patent No.
7,090,261

Water Pipe Guide

Water Pipe Notch

CONNECTIONS

- External sealing "O-ring" connection allows unobstructed water flow.
- No glue necessary.
- 1.05" (27 mm) large volume pipe.
- Simple push together assembly.
- Keyed connection from regulator to end assembly.
- Light resistant water pipe prevents algae.

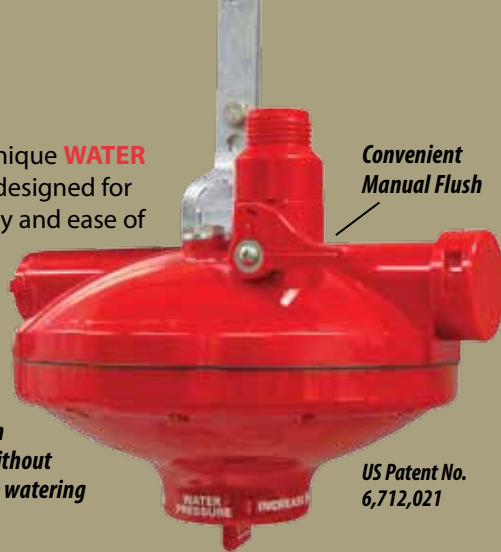


SELF SEALING CAP at the clear sight tube to prevent water spillage.

Cumberland's aluminum rail joint connectors are easy to install and provide a robust fit for your connection needs.

Cumberland's unique **WATER REGULATOR** is designed for greater versatility and ease of use, no by-pass necessary.

The Cumberland Regulator can be easily removed from the watering line without interfering with the watering line suspension.

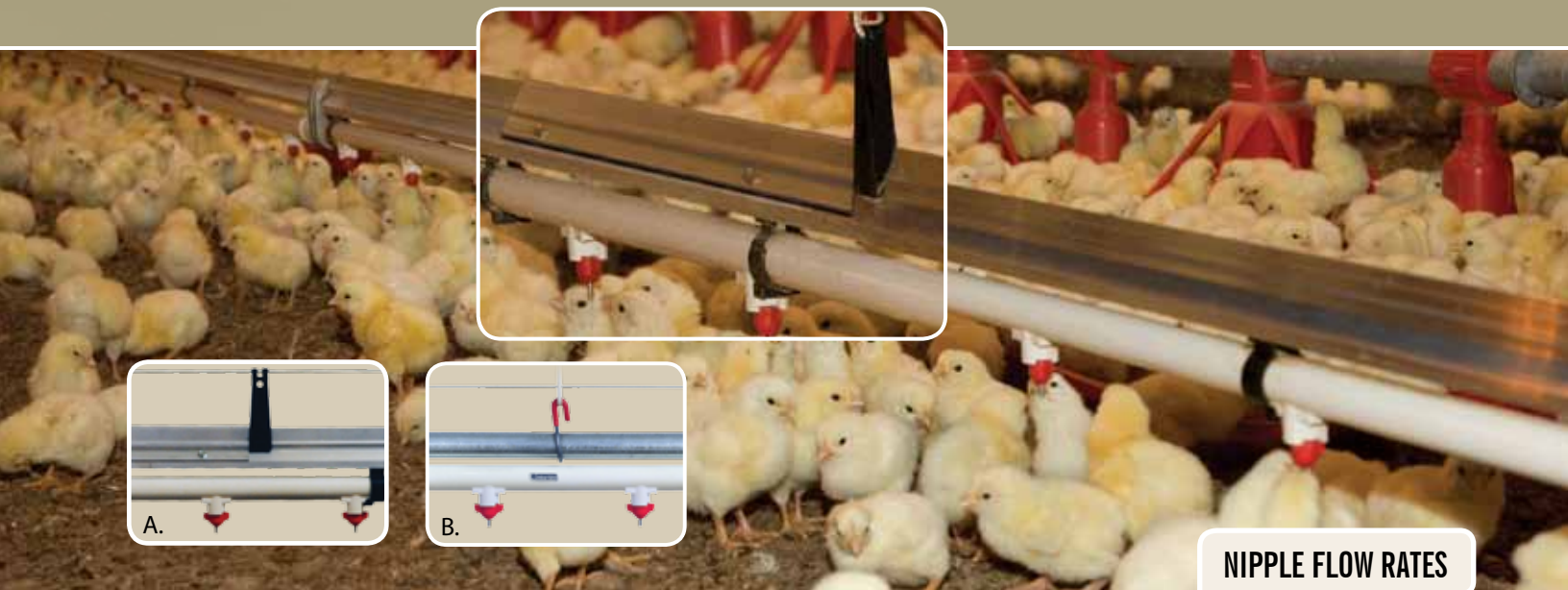


Convenient Manual Flush

US Patent No.
6,712,021



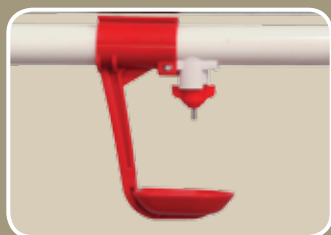
MID-LINE REGULATOR with its unique in-line design can be used as a mid-line regulator by simply removing the end cap.



NIPPLE FLOW RATES

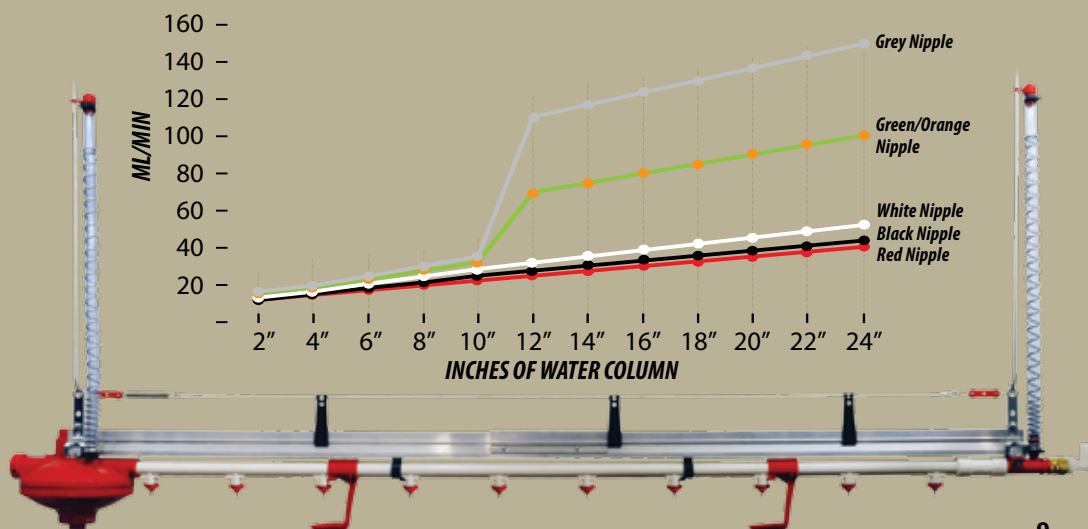
SUPPORT SYSTEM OPTIONS

- A. Aluminum Rail
B. Round Pipe



DRINKING CUPS

The easy to install drink cup is available as an option on our watering systems.

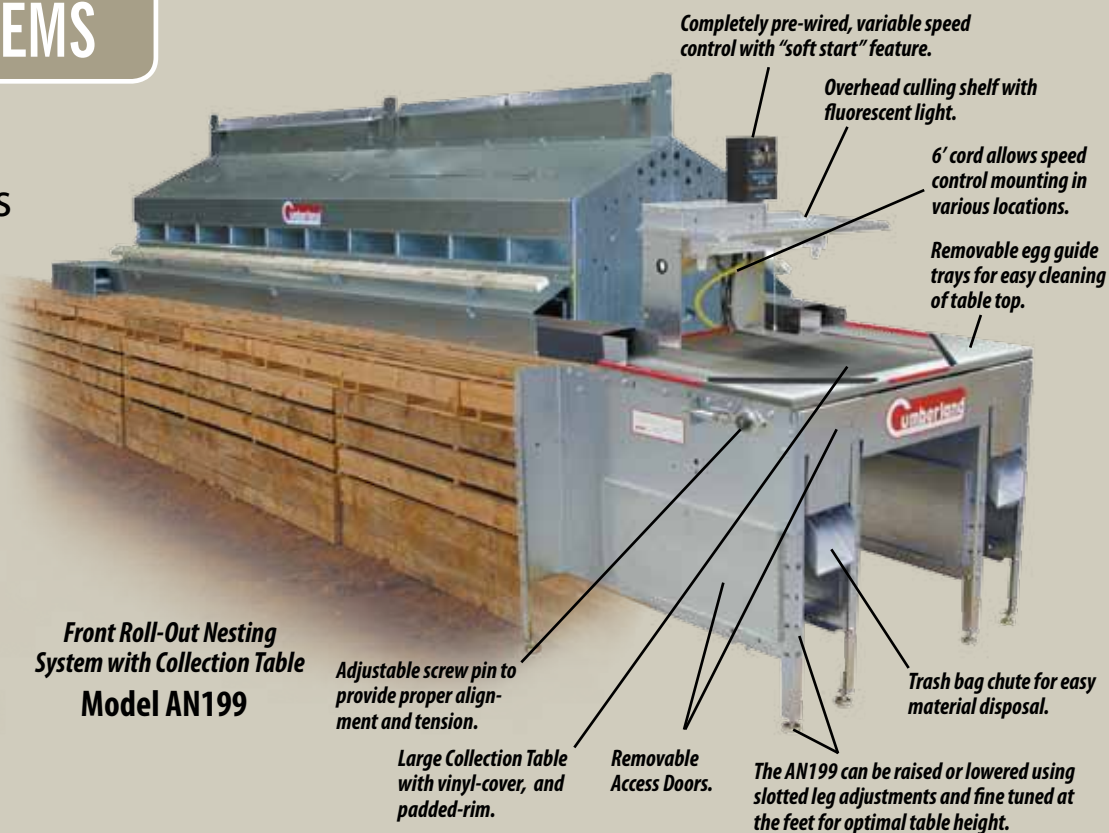


NESTING SYSTEMS

Front Roll-Out Nesting Systems

Cumberland's Front Roll-Out Nest is available in 16 or 20 hole, double belt models. Combined with proper breeder management practices, Cumberland's nesting systems can help you achieve excellent results with minimal labor and maintenance costs.

Front Roll-Out Nesting System with Collection Table Model AN199



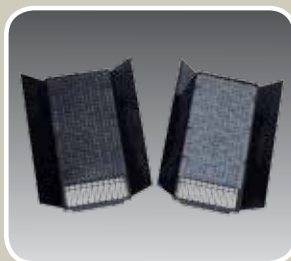
FRONT ROLL-OUT NESTING FEATURES



CONVENIENT FRONT ACCESS allows for egg collection in the event of a power failure and provides easier cleanout and maintenance without extensive and time consuming disassembly.



The front roll-out nest features a **HINGED LID** which conveniently lifts or closes to block nest access.



The front roll-out nest offers the grey crushed leaf or rubber finger (FRN20 Only) **NEST PADS** with a durable, easy to clean, plastic nest bottom.



For increased egg storage during collection, a **REMOVABLE EXTENSION TRAY** is an available option for the front roll-out collector table.

Center Roll-Out Nesting Systems

The single belt, Center Roll-Out Nest features a comfortable, safe and easily accessible laying area reducing bird stress and promoting enhanced hatchability. Available in 12 hole and 10 hole units, this nest is a durable and dependable choice.



CENTER ROLL-OUT COLLECTION TABLES



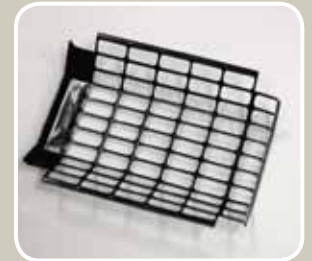
Cumberland's 12 and 10 hole mechanical nest offers a **LARGE VERTICAL OPENING** that helps provide comfortable and easy access for the bird.



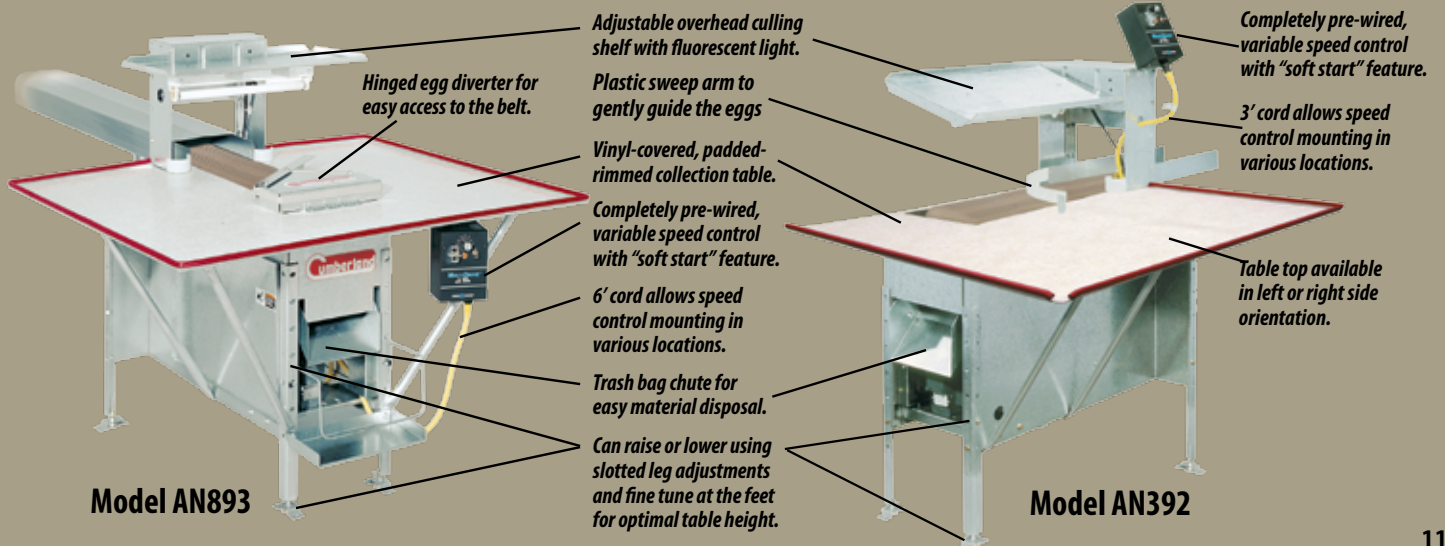
For Center Roll-Out nests, an **OPTIONAL WOODEN PERCH** is available with double-riveted support brackets to eliminate sway. The perch can be raised and locked to control accessibility.



Rubber finger or grey crushed leaf **NEST PADS** are easy to clean and provide a comfortable and inviting laying area. Both designs promote proper roll-out with minimal egg contact. Both style of pads are available for 12 hole nests.



Our plastic, corrosion resistant **NEST BOTTOM** has large openings from the front of the nest to the back keeping litter from building up without losing any strength. It's contoured design helps funnel eggs to the belt with ease.



NESTING SYSTEMS

Additional Front and Center Roll-Out Nest Features & Accessories



BELT ROLLERS are made of heavy-duty plastic and are adjustable with a simple screw pin. A fiber brush clears debris off the return belt.



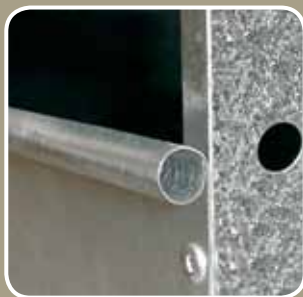
Each table features a spring loaded, self-adjusting **BELT TIGHTENER** with automatic shutdown and a front clean out with a belt brush to continuously remove debris from the line.



The **NEST BOTTOM RODS** support the nest bottom without the need for ledges that can cause litter build up. Adjustable nest bottom rods will help facilitate safe egg roll out.



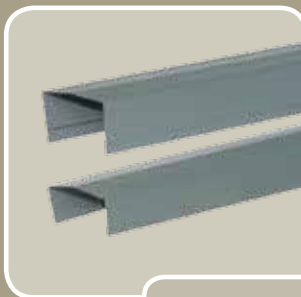
A simple but effective **ANTI-ROOST DEVICE**, and a steep pitched roof, keep birds from roosting on the houses promoting a cleaner environment and longer equipment life.



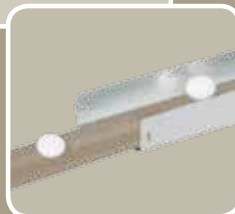
HEMMED AND/OR ROLL FORMED PARTS eliminate bird injury or bruising caused from exposed metal edges.



Cumberland's **POULTRY FLOORING** reduces foot pad problems, leg problems, and breast blisters often experienced with wood slats. It's easier to clean and will easily outlast wood slats as well.



Cumberland offers a selection of strong and highly durable grey **VINYL AISLE COVERS** to eliminate the expense of continuously replacing corroded metal aisle covers. Vinyl covers are available for recessed or non-recessed nest installations.



Heavy Duty **GALVANIZED AISLE TRAYS** are available providing a durable path for the belt and eggs to travel.

Several styles of weighing systems to fit your needs.

6' Bin Scale

Choose from a 6' (1.83 m) tank scale with a 5000 pound (2268 kg) capacity or a complete load cell package for out-of-house weighing of feed.

Rooster Scale

Cumberland's 650 lbs. (295 kg) hanging hopper scale will provide accurate daily weighing needed for the male feeding system.



Platform Scale

For in-house weighing, a platform scale is available with either 1800 pound (816 kg) or 4000 pound (1814 kg) capacity hoppers.



INTEGRA FEED-LINK™ SYSTEMS

Easily Manage Your Feed Inventory with **Integra Feed-Link™**

The Integra Feed-Link System from Cumberland provides a cost-effective method of monitoring and managing on-site feed inventory either at the site or from a remote location. Feed-Link can be easily adapted to new or existing facilities to provide accurate real-time data regarding feed inventory levels and feed consumption.



VENTILATION FANS

A main contributor to high bird stress and low bird weight is an overheated or poorly ventilated poultry house. Even if your building is well ventilated, inefficient equipment can blow healthy bird profits right out the window. Cumberland ventilation systems are the perfect solution.

A balance of performance, features, and value come with Cumberland's 50" & 54" Butterfly fans.

- Simple Butterfly style shutter structure improves fan performance and stability.
- Uses a magnetic shutter panel ring to alleviate movement of shutter doors while not in operation. In turn, the sealing area is reduced 50% or more compared to the traditional louver style shutter, resulting in lower heating cost during winter months.
- Easy to assemble, flangeless cone panels.

CAT. 5

GALVANIZED STEEL FANS



The **BUTTERFLY FAN** eliminates the need for the traditional louver shutter which are prone to dust buildup. During fan operation, the air forces the shutter doors open to provide full fan performance.

ARCHED SIDE CONE PANELS allow Cumberland fans to be mounted closer together on field installations.



Keeping cost to a simple breeze.



Front shutter doors offer **PROTECTION FROM HARSH WEATHER CONDITIONS** such as wind and moisture while the fan is not in use.



Easy access **DRIVE TRAINS** come standard with all belt drive fans. Large, cast iron, high quality greasable pillow block bearings are used for longer life. Large pulleys allow for longer belt life and smooth operation. An automatic belt tensioner ensures proper belt tension.



Cumberland offers **36" AND 50" SLANTWALL FANS** in belt drive and direct drive models to efficiently and effectively maintain optimal environmental conditions. All galvanized fans are constructed of heavy gauge, G-90 grade galvanized steel and use totally enclosed "TEAO" motors designed for high efficiency and continuous duty cycles. Galvanized fan propellers are aerodynamically balanced for maximum air flow.



OPTIONAL DISCHARGE CONES can boost fan output by as much as 10-15%, greatly increasing efficiency. Made of all galvanized steel, cones are available in easy to ship and assemble four-piece segments for 36" & 50" models.



Cumberland **DIRECT DRIVE OR BELT DRIVE BOX FANS** feature heavy duty galvanized steel housings, grill guards, venturis and propellers. Box fans are available in 36" (14" and 19" depth) or 50" (21" and 25" depth) diameters.

Cumberland fans offer superior airflow and reliable performance.



Factory assembled, pre-wired, **20" CIRCULATION FANS** are available for light air movement. These highly efficient 20" fans include 1/10 HP "TEAO" motors and galvanized props for whisper quiet operation. Other features include PVC coated guards for durability and multi-application hanging bracket. Choose from our long-standing, 3-bladed fan with standard grill spacing, or new economical 2-bladed fan, with a more widely spaced grill.

VENTILATION FANS

Cumberland's fiberglass ventilation fans are manufactured using a "Resin Transfer Molding" (RTM) process for a smooth finish on both interior and exterior surfaces of the fan housing. The basic fan includes a heavy vinyl coated guard, PVC shutter, and all aluminum and stainless steel mounting hardware.

Corrosion resistant fiberglass fans from 36" to 54" diameters.

FIBERGLASS FANS

When the design team at Cumberland was given the challenge of developing the **PERFORMER SERIES** fan line, three points were paramount. Performance, efficiency, and longevity all needed to be maintained while keeping the price as competitive as possible.

You will find the Performer Series ventilation fans have not only met, but exceeded those goals.



36" and 50" fiberglass models available with and without cones.



Cumberland's **COMPETITOR SERIES** fans are the airflow champions. Available in up to 54" models, harnessed with high efficiency motors, and capable of moving up to 30,000 cubic feet of air per minute, Competitor series fans are another powerful tool to help you compete in today's world marketplace.

Features include a 1.5 HP single phase motor or a 1.75 HP three phase motor, easy belt access, fiberglass housing and cone, and stainless steel hardware.

The belt driven 54" competitor series fans offer an automatic belt tensioner providing smooth operation and constant belt tension. Like all Cumberland belt drive fiberglass fans, cast iron pulleys and greasable pillow block bearings are standard features.



COMPOSITE PROPELLERS are made of a tough composite fiberglass. Engineered with a true airfoil design, these propellers increase the overall efficiency of the fan providing optimum airflow effectiveness.



DRIVE SHAFTS of 1" material allow for large, cast iron, greasable pillow block bearings to be used for longer life. Large pulleys allow for longer belt life and smoother operation.

GALVANIZED FAN PERFORMANCE VALUES

Model	Dia.	Drive	Type	HP	0.0 Static Pressure		.05 Static Pressure		.10 Static Pressure		BESS Lab Test #
					CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	
G50CBF16GA	50"	Belt	Butterfly	1.5	25238	27.4	23524	24	21807	20.8	4309
G50CBF16GAHE	50"	Belt	Butterfly	1.5	23915	30.2	22131	25.9	19937	22.1	4310
G50CBF16GAHF	50"	Belt	Butterfly	1.5	26913	24.2	25427	21.5	23603	18.9	4308
G54CBF16GA	54"	Belt	Butterfly	1.5	-	-	* 31800	22.6	29450	19.8	6218
G54CBF16GAE	54"	Belt	Butterfly	1.5	-	-	27500	25.9	24720	21.7	6223
G54CBF16GAU	54"	Belt	Butterfly	1.5	-	-	25000	28.8	21850	23.3	6222
CGSB36	36"	Belt	Slantwall	0.5	10578	19	9984	17.1	9379	15.5	98273
G50SL16GA	50"	Belt	Slantwall	1	22373	18.6	21042	17	19595	15.5	98283
CGSD36	36"	Direct	Slantwall	0.5	10417	17.5	9747	15.8	9105	14.2	94-0015
CGSD50	50"	Direct	Slantwall	1.25	20400	19.2	19300	17.5	18100	15.8	94328
CGBB3614	36"	Belt	Box	0.5	10171	19.6	9615	17.8	8969	15.8	00128
CGBB5021	50"	Belt	Box	1	20861	20.9	19486	19.1	18071	17.4	94276
CGBD3614	36"	Direct	Box	0.5	10950	19.3	10280	17.7	9560	16	94131
CGBD5021	50"	Direct	Box	1.25	20450	1909	19200	17.8	17910	15.9	94283
CGSBC36	36"	Belt	SW Cone	0.5	11341	20.9	10653	18.4	9898	16.4	98275
G50SCL16GA	50"	Belt	SW Cone	1	24700	22.5	23100	20	21500	17.7	3168
G54SCL16GA	54"	Belt	SW Cone	1.5	28900	27.1	26700	23.6	24300	20.4	-
G54SCL16GHF	54"	Belt	SW Cone	1.5	30856	24.0	29184	21.3	27185	18.8	-

* Performance values of this fan at .05" static pressure exceeds the BESS Lab test capabilities and were calculated through regression analysis of CFM and CFM/Watt measurements.

FIBERGLASS FAN PERFORMANCE VALUES

Model	Dia.	Drive	Cone	HP	0.0 Static Pressure		.05 Static Pressure		.10 Static Pressure		BESS Lab Test #
					CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	
APPB-36	36"	Belt	No	0.5	10952	16.1	10152	15.4	9339	14	-
APPB-36C	36"	Belt	Yes	0.5	11232	18.2	10905	17.5	10135	15.8	-
APPB-50	50"	Belt	No	1	21508	17.6	20160	15.7	18707	14.4	-
APPB-50C	50"	Belt	Yes	1	24282	23.4	22760	21	21129	19	01251
CS54C1-P	54"	Belt	Yes	1.75	32125	-	30044	20.2	28157	18.3	-

Low maintenance shutters with no parts to rust.

Available in a variety of sizes and materials, we have a **FAN SHUTTER** to fit your particular requirements be it low light, low maintenance or low cost. The true airfoil design of our shutter blades make them extremely effective allowing for very little performance loss. Simple to install and built to last a lifetime, Cumberland shutters can provide an easy and affordable means of controlling incoming light and building climate.



Galvanized Epoxy Painted

Aluminum

PVC (White)

PVC (Black)



Cumberland **PVC SHUTTERS** come in white or black, and are very low maintenance and easy to clean. The black shutters are used in reduced lighting applications. **GALVANIZED SHUTTERS** have galvanized frames, with epoxy painted blades to reduce rusting, allow easy cleaning and provide additional protection. **ALUMINUM SHUTTERS** offer great durability in any environment.



Better Service. Better Products

CURTAIN MACHINES

Protect the health of your investment with a properly controlled curtain system. Cumberland's curtain machines deliver powerful performance and reliable operation with durable components to withstand a rigorous environment.



Cumberland's **CURTAIN CONTROLLER** is a screw driven automated curtain machine with a heavy duty 15, 30 or 60 RPM motor. Multi-directional, frame mounted, header pulleys and latch out assembly come standard.



The drive block assembly features a removable nylon insert in a heavy-duty powder coated weldment which simplifies maintenance, decreases friction and provides wear characteristics superior to conventional brass drive blocks. UHMW polyethylene guide wheels insure smooth travel, proper alignment and stability.

A plastic water resistant junction box is accessible from the outside of the curtain controller.



Solid construction and rust resistant materials make the sprocket controller a reliable workhorse year after year.



The Curtain Controller utilizes a threaded block and drive screw directly coupled to a direct drive gear motor.



Isolated primary and secondary limit switches allow for backup protection.

Model	H. P.	Voltage	Frequency	AMP Draw	Travel Speed	RPM
15 RPM Curtain Controller	1/12	115V	60 Hz	1.0 Amps	3" per minute	15
30 RPM Curtain Controller	1/8	115/220V	50/60 Hz	1.7 Amps	6" per minute	30
60 RPM Curtain Controller	1/6	115V	60 Hz	1.8 Amps	12" per minute	60
A.T. Newell	1/2	115V	60 Hz	6.0 Amps	3" per minute	1725

Curtain Commander Length	"A" Travel	"B" Width	"C" Length	"D" Width Less Flange	Weight
24" (61 cm)	22" (55.9 cm)	10.2" (25.9 cm)	52" (132.1 cm)	9.5" (24.1 cm)	110 lbs. (49.9 kg.)
36" (91.4 cm)	34" (86.4 cm)	10.2" (25.9 cm)	64" (162.6 cm)	9.5" (24.1 cm)	130 lbs. (58.9 kg.)
48" (121.9 cm)	46" (116.8 cm)	10.2" (25.9 cm)	76" (193 cm)	9.5" (24.1 cm)	150 lbs. (68.0 kg.)
60" (152.4 cm)	58" (147.3 cm)	10.2" (25.9 cm)	88" (223.5 cm)	9.5" (24.1 cm)	160 lbs. (72.6 kg.)

CUMBERLAND'S AUTO CURTAIN

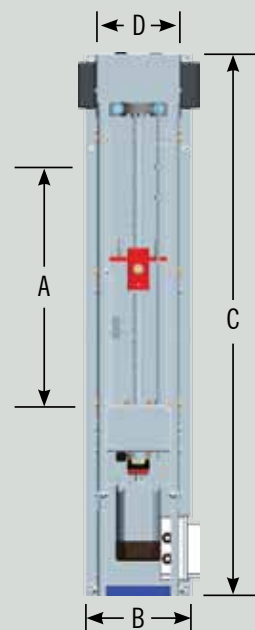


Cumberland's **AUTO CURTAIN** operates on a cable system by winching a cable around a grooved drum controlled by a thermostat and timer.

A 506S version uses a sprocket and chain drive that wraps the curtain, or door drop cords around a building length pipe eliminating the need for cable.



HARDWARE KITS are available with heavy duty galvanized steel components including sealed needle bearing pulleys, and plated, anti-wrap designed fasteners for ease of installation.





POWERTRAK® *Vent Machine*

- Machine designed specifically for vent inlet applications.
- 15 or 30 RPM - 120v, 60hz, 1ph.
- 30 RPM - 240v - 50/60hz, 1ph.
- 42.5" overall machine length for tight areas or short walls.
- Maximum travel length on rod is 12".
- A threaded block and drive screw is directly coupled to a direct drive gear motor.
- Hardware included for cable or chain connection.

Get on trak with powerful solutions.

Operate attic inlets, vent doors, and other items requiring a 12" or less controlled movement at, or under, a 2,000 lb. capacity with the **POWERTRAK "VENT MACHINE"**. Designed for a wall or ceiling mounted indoor installation, this machine will provide a more cost effective way to operate your vent inlet applications. The PowerTrak "Vent Machine" is available in 15 or 30 RPM models and can be ordered in either 120v or 240v single phase units. (Note: 240v units available in 50/60hz)



Door hinges from top of the cabinet on a ceiling mount or can be easily removed on a wall mount for unobstructed access to components.



Composite load nut offers increased life expectancy over brass.



Channel lock "trak-drive" system captures load block.

Easy adjust spring-cam limit switch system.



POWERTRAK®

*The Super Strength System
for Curtains & Vent Doors*

- Modular construction for ease of service.
- Built in head bracket with needle bearing pulleys.
- Channel lock "trak-drive" system captures load block.
- 15% increase in load block support surface for greater life.
- Easy adjust spring-cam limit switch system.
- Convenient, easily removable, hinged springlock door.
- Greater protection from the elements.
- Upper and lower auxiliary contact for enhanced Evolution features.

With a 5,000 pound capacity, the superior quality and design of the **POWERTRAK** linear drive system boasts many performance and durability enhanced features.



Cumberland's **SIDEWALL VENT DOORS** are used in poultry applications where transitional ventilation is required.



The all plastic Curved Sidewall Vent Door directs fresh air into the house along the ceiling toward the peak for gentle air mixing without downdrafts on the birds.



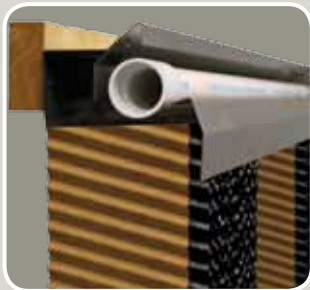
All galvanized construction and simple to install, Cumberland vent doors are maintenance free and provide years of optimum circulation.

COOLING SYSTEMS

Evaporative Cooling Systems

Evaporative cooling systems utilize the natural cooling effect of evaporation to combat seasonal dips in production caused by heat stress.

Made of high quality stainless steel or aluminum, the **OPEN TOP SYSTEM** offers the grower easy access to manage and maintain their evaporative cooling system. This systems design allows you to see the water jets and easily check water pressure. It also offers access to the spray bar for cleaning.



The **CLOSED TOP SYSTEM** is extruded from ultraviolet stabilized PVC for durability and ease of installation. The hinge-open cover and thumb-screws allows accessibility to spray bar and hold pads firmly in place. The spray bar bracket and water deflector insure pads are uniformly wet.



Cumberland's **PRE-FORMED SQUARE TROUGH** serves as a 3 gallon per lineal foot (44.8 liters per meter) water reservoir. Constructed of corrosion proof, ultra-violet stabilized PVC components, the trough allows unevaporated water to be recirculated back to the holding tank. A perforated tray snaps to the trough to hold pads firmly in place. Injection molded end caps and couplers speed installation.



Center feed and drain kits are available for longer cooling systems.

Other Evaporative Cooling System Features Include:

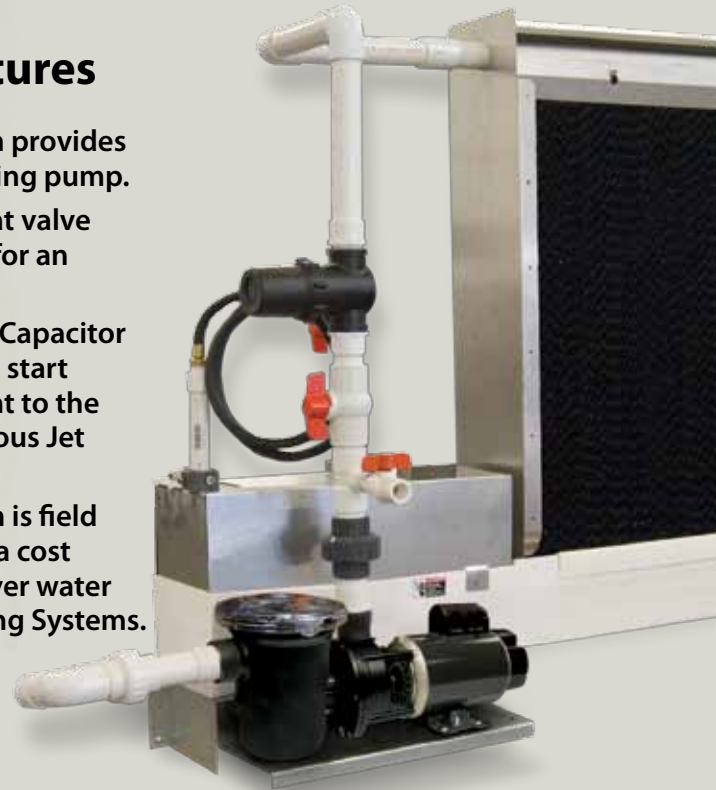
- Submersible pump keeps water levels consistent for efficient water delivery.
- Automatic float valve for matching water supply with water demand.
- Trough support brackets for suspending the system on a sidewall.
- Wide selection of cooling pads.
- Easy removal of pads for cleaning.



A roto-molded holding tank offers increased water storage capacity.

Jet Pump Features

- The Jet Pump System provides an external self priming pump.
- Trough mounted float valve eliminates the need for an external tank.
- The Permanent Split Capacitor motor eliminates the start switch and will mount to the wet end of any previous Jet Pump kit.
- Our Jet Pump System is field proven, reliable and a cost effective way to deliver water to Evaporative Cooling Systems.



Evap Pads

- Strongest & heaviest pad available.
- Produced using the most advanced curing process.
- Use the most advanced resin technology.
- Superior black diamond edge coating.
- Custom sizes from 2' to 6' tall.
- Made in the USA.



Cam-Lock system allows toolless pad installation and replacement.



The spray bar bracket and water deflector insure pads are uniformly wet.

CONTROLS

Precise control of temperature, airflow, bird weight, water consumption, feed inventory, and lighting is a must for achieving top profits for growers. Cumberland's complete line of control systems cover all of these elements in cost effective, easy to operate management systems.

Cumberland's **PRO VISION** controller offers professional environmental systems management with minimal effort. Pro Vision's grower friendly features include:

✓ Easy to Install and Setup

- Easy step by step setup mode.
- Large keypad for easy adjustment.
- USB port for updating and saving settings.
- Personal computer setup software.
- Optional input board for up to 32 additional temperature probes.

✓ Easy to Use!

- Large screen with friendly style interface that allows the user to instinctively navigate controller screens minimizing learning process time.
- Access any menu with minimal keystrokes.
- 10 hot keys give you quick access to main settings.
- Menus can easily switch from english to spanish.
- A high resolution display enables easy to read conditions.

✓ Easy to Service!

- Outstanding high voltage surge protection.
- Pull out wire terminals.
- Built-in diagnostic software.
- Optional AMP reading relays.



A USB key allows for easy program changes and updates.

PRO VISION

An **ENVIRONMENTAL CONTROLLER**
so easy you'll manage like a Pro!



The Pro Vision enclosure and circuit board mounting system allows plenty of space for wiring and room for expansion. An optional input board allows for up to 32 additional temperature probes.

The most "Grower Friendly" controller on the market.

Other Pro Vision Features Include:

- 4 modes (broiler, breeder, layer, and turkey).
- Enhanced attic vent operation.
- 2 Tunnel inlet outputs.
- Up to 6 digital inputs for feed or water.
- 12 time clocks.
- Stir fan operation based on temp or minimal ventilation.
- Up to 8 natural curtain zones (turkey and breeder modes only).
- Up to 9 lighting programs.
- Up to 10 ventilation programs.
- Water line flushing, with up to 8 outputs.
- Heat and feed runtime monitoring.
- Water spill alarm.
- Operate inlets by time or static pressure.
- Up to 16 heat zones, 32 using hi/low fire.
- 128 maximum relay capacity.
- Detailed alarm history.
- Loop feeding clocks.
- Nighttime setpoint.



Relay Panels

- 32 & 40 output relay panels.
- On/off/auto relay switches.
- Open/off/close switches for curtain relays.
- Clear protective door.
- LED on lights.



I-BOX gives you the power to direct your controller(s) operation and information to one powerful management and reporting system. All data changes, events, and alarms are automatically logged as they occur. Multi-user support with remote connect through the internet, Wi-Fi, and more. For more information, visit us online at WWW.CUMBERLANDPOULTRY.COM



Expert-WW Controller

- Ventilation based on static pressure and temperature.
- Upload/download chip for easy transfer of settings.
- Two timed curtain output for tunnel ventilation.
- Energy saving features.
- Manual override switches, indicator lights and relays for each stage.
- 20 relays built in.

Agri-Alert

Common to all alarms

Complete alarm systems for monitoring temperature, power, water system, burglary, and more.

All Agri-Alert systems include:

- **Spike Block** surge/lightning protection on all zone inputs and system outputs. Offers up to six times the protection of most other alarm systems.
- Outdoor temperature compensation feature available on all models.
- Reliable 12 volts rechargeable gel-cell battery back-up.
- Programmable alarm recall feature for acknowledged but unresolved alarms.
- Self-diagnostics of complete system including wiring, sensors, outputs, fuses, battery, etc.
- Programmable alarm recognition delays for each individual zone.
- Dialing of alarms to multiple phone numbers: pagers, cell phones, or telephones.
- Alarm memory log with time, user & date stamp (last 10 alarms).
- Security with up to 10 programmable user access codes.
- Built-in phone line seizure for added security.
- Off-site phone-in capabilities for checking temperatures and other system functions.
- Moisture and dust-tight ABS enclosures for harsh environment locations.



AA 800EZK & AA 800EZL

- Graphical LCD screen:
 - View information quickly & clearly.
 - Intuitive screen design.
 - Easy navigation through menus.
- Re-settable fuses on PCB; no more blown fuses to change.
- Integrated rechargeable back-up battery.
- 2 output relays that can be activated by phone; can call up to 8 different phone numbers (home, phones, pagers, cell phones, etc.).
- Recordable messages for system id and individual zone voice labeling.
- Acknowledge alarms by phone.
- Call in from off site for zone temperatures & system status reports.
- Auxiliary 12vdc power supply (AA-WM3000 wireless compatible).
- Outdoor temperature compensation feature (standard with AA 800EZK).



AA 2400

- Starting with 8 supervised zones that can be activated or bypassed individually or in partitions.
- Expandable to 24 zones using expansion cards (max.2 cards) and 8 zones per expansion card.
- Any zone can be configured for dry contact, temperature, 4-20 ma input, 0-5 volt input, pulse count, or burglary.
- 2 output relays with form "c" contacts. Relays can be operated from the keypad or a phone.
- Built-in or remote microphone for on-site listening.
- Outdoor temperature compensation feature (uses 1 zone).
- Can call up to 8 different phone numbers.
- Recordable system ID message.
- Auxiliary 12 volt DC power supply.



AA 9600

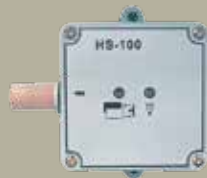
- Starting with 8 supervised zones that can be activated or bypassed individually or in groupings.
- Expandable to 24 zones locally using expansion cards (max. 2 cards) - 8 zones per expansion card.
- Expandable to 96 zones in total using serial bus interface to remote transponders and keypads.
- Any zone can be configured for dry contact, temperature, 4-20 ma input, 0-5 volt input, burglar, AC current.
- Min/max temperatures displayed on screen.
- Auxiliary 12 volt DC power supply.
- Can call up to 16 different phone numbers.
- Outdoor temperature compensation feature (uses one zone).
- Event buffer to record all system events in non-volatile memory (up to 2000 events).

CONTROLLER ACCESSORIES



Sundial Power Module

- Light intensity can be different in zone 1 & 2 or identical
- Two resistive loads of 3600W each
- Manual Mode: Can be used as a stand alone unit
- Auto Mode: Light intensity in the selected zone(s) is automatically adjusted by the controller



Humidity Sensor Probe

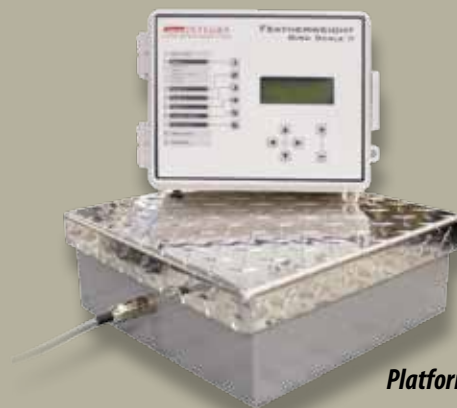


Water Meter



Static Pressure Transmitter

Cumberland offers the complete breeder package taking birds from day old to adult with equipment and components growers have come to rely on.



Platform Scale

Featherweight Bird Scale II & Platform Scale

- Convenient size makes it easy to install on slats between nests, watering, and feeders
- Easily accessed by bird which are instinctively tempted to climb on
- Includes 120' of interconnecting cable
- Totally sealed components
- Factory calibrated
- Maintenance free
- Grower can adjust feeding program according to bird's weight to obtain optimal bird performance
- Platform scale records weight automatically and continuously
- Programmable weight schedule capability
- Accurate to nearest +/- 15 grams
- I-Box compatible

Back-Up Safety Relay Box

- Up to eight (8) stages
- Back-up Safety Relay Box does not include thermostats



Your Source for Innovative Solutions



HIRED-HAND



Your Agriculture Company Cumberland and Hired-Hand are a part of GSI, a worldwide Brand of AGCO

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